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**Patentanmeldung Nr. Patent application No. Demande de brevet n°**

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Internet protocol based multimedia system (ims)

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T02028 EP

1

**Internet Protocol based multimedia system (IMS)****Mobile Community Service - a short description**

5 Starting point for service definition was the aim to make use of the unique capabilities of mobile networks in general and unique features provided by IMS to combine them in a new service type. One of the unique capabilities of mobile networks is availability of location information. Among mobile networks only IMS based networks allow the exchange of presence information and combination of  
10 media components in a session.

The presented service exploits all this unique features of IMS based mobile networks.

15 It gives the subscriber the possibility to advertise his handset for approach of interested people within a certain range by sending them a message of a chosen media type and vice versa, that means receiving a set of chosen media types from people within a certain range.

**The service sequence is as follows:**

20 A subscriber decides to become active in the community, subsequently he logs in to the network and gets to the "mobile community" application menu in his device. There the choice is offered to change mood to "interested in contact". By selecting this mode the choice between two modes is offered. He can become active and send his contact data to other users, named hereinafter "advertising" mode or he  
25 can decide to go for the inactive mode, not sending but receiving other community members data only, at further called "receiving" mode. Of course both modes can also operate in parallel.

For both possibilities the preferred name and media type can be specified.

30 If "advertising" mode is chosen, media type and the special content to be sent can be specified. As well the region in which the content shall be sent to interested receivers can be specified.

Content can be a text or picture message, a video clip or a voice message. All the messages can be either recorded directly using handset capabilities or chosen

T02028 EP

2

from a set of pre-recorded contents. This contents can be stored on a personal account via web interface at any time. The stored contents are offered on a selection menu automatically if "advertising" mode is selected. To avoid the necessity of carrying a high end device that is able to host all applications  
5 necessary for recording of content, web access is provided to all users. This gives all users the possibility to create content at their home PC and store them for later selection via the mobiles menu, where the pre-recorded content is shown automatically when the service module is activated. Content can also be predefined via web access so the mobile has not to deal with the content at all.  
10 The region in which the content shall be distributed can be specified by abstract distribution classes, such as "local", "walking distance" and "city wide". The class "local" would cover approximately the size of a radio cell and perhaps the neighbouring cells, "walking distance" would mean within a walking distance of 15 min and "city wide" would mean in the borders of the city, but still reachable by  
15 public transportation.

A typical user scenario could look as follows: Peter, a software consultant was sent to the city to support the customers IT department. In the evening he decides to relax in the city park. But as time goes by he feels lonesome and wishes to be  
20 in company. So he takes his mobile device and enters the mobile community service by advertising his phone with the video message: Hello, my name is Peter, I am looking for some company this evening to have some drinks and relaxed chatting. He decides to receive any message, text, picture, phone call or video message and advertises his device in the whole city region as it is not too  
25 late in the afternoon. He decides to become active in receiving mode at the same time. None of the received "advertisement" messages tracks his interest. But after some minutes a text message comes in, sent by Linda, who wants to put up a chat session to get in first contact. After some chatting Linda asks him if he can send a picture. Of course he does and in turn he asks Linda for a phone  
30 connection. After having chatted for a while Linda asks him for his preferred food, as she wants to join a vegetarian barbecue party and is looking for company. Peter is enthusiastic about vegetarian barbecue and they decide to meet one hour later to go for grilled cauliflower and roasted carrot.

T02028 EP

3

#### Further enhancements

For fast growing communities and vast number of members, it could become difficult to decide for an "advertisement". This can easily be solved by  
5 differentiating the advertisements according to contact aims, such as personal contact or conversational contact only. Passing details with the advertisement by sending personal interest such as hobbies or planned activities can be supported by offering an addressable subject field that pops up at the receivers device and gives him the possibility to accept or refuse the session.

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#### Conclusions

Packet based mobile networks of 2.5 and 3<sup>rd</sup> generation are able to provide the capacity and reliability prerequisite to mass roll out of this service that has high potential to become adopted in the life of a considerable percentage of mobile  
15 subscribers. At present only IMS based networks are able to handle the features and media components necessary to create this new mobile community service.

T02028 EP

4

## Claims

- 5 1. Internet Protocol based multimedia system characterized by combining means for location information with media components during information exchange between a communication centre and peripheral units:
2. Procedure for information exchange using the components of an Internet Protocol based multimedia system according to claim 1.

PCT Application  
**EP0312042**



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